EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	1753	(restor$3 with file).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/18 08:39
L5	24	((match$3 or verif$5 or search$3 or map$4) with (hash$3 or (bit near map) or binary) with file with backup)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/18 09:49
L6	17	5 and @ad<"20010820"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/18 09:05
L7	0	(rename with (hash$3 or (bit near map) or binary)) and 6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/18 08:44
L8	0	(rename with (hash$3 or (bit near map) or binary)) and 5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/18 09:52
L9	4	(name with (hash$3 or (bit near map) or binary)) and 5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/18 09:03
L10	4	9 and @ad<"20010820"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/18 09:53
L11	7	5 and (707/202-204).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/18 09:52

EAST Search History

L12	52	((match$3 or verif$5 or search$3 or map$4) with (hash$3 or (bit near map) or binary) with file with (backup or archiv$3 or restor$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/18 09:49
L13	12	12 and (707/202-204).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/18 09:52
L14	0	(rename with (hash$3 or (bit near map) or binary)) and 13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/18 09:52
L15	9	13 and @ad<"20010820"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/18 09:53

EAST Search History

S1	114	(match$3 with file with backup)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/17 11:06
S2	1751	(restor$3 with file).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/17 10:54
S3	13	S1 and S2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/17 10:54
S4	8	S3 and @ad<"20010820"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/18 08:40
S5	485	((match$3 or verif$5 or search$3 or map$4) with file with backup)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/18 08:39
S6	21	S2 and S5 and @ad<"20010820"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/17 11:13
S7	2	S6 and hash$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/17 11:08
S8	50	((match$3 or verif$5 or search$3 or map$4 or compar$3) with file with backup) and S2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/17 11:13

EAST Search History

S9	2	S8 and hash$3 and @ad<"20010820"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/17 11:14
S10	26	S8 and @ad<"20010820"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/17 11:30
S11	1	S10 and (encrypt with file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/17 11:16
S12	1	S10 and (encrypt with backup)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/17 11:16
S13	3	S10 and (encrypt$3 with (backup or file))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/17 11:16
S14	8	S8 and (backup$3 with version) and @ad<"20010820"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/17 11:30

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Efficient computer file **backup** system and method - Patent 20040236803
A **hashing key** is computed for each file to be backed up on a target computer. ... B. **renaming** said **backup** file to said specific **hashing key**; C. storing said ...
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INFORMIX 8.21.UC1 PRODUCT RELEASE 27 March 1998
Hash fragmentation Version 8 can distribute rows using a system-defined **hash** ... If the server has to start a new worker to retry a **backup** or **restore** enough ...
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Star joins are accomplished solely with a **hash** join method. ... If the server has to start a new worker to retry a **backup** or **restore** enough times to exhaust ...
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Encryption keys in TealLock are generated using an MD5 **hash** of the User Password, utilizing a separate **hashing key** from that used for password verification. ...
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2002-07-04 Yoann Vandoorselaere <yoann@mandrakesoft.com> * sync ...
Use a **hash** table to store ARP entry. The **hash** function is a little weak, ... **restore** the fds usign it's **backup**, instead of recalling FD_SET macros. ...
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[build-status: 32196] Log for failed build of mailagent_3.73-21 ...
If you make a mistake on a question, there is no easy way to **back up** to it ... The name is used as a **hashing key** to compute the name of the file (the two ...
www.linux-m32r.org/pipermail/build-status/Week-of-Mon-20060227/032370.html - 231k - Cached - Similar pages

[PDF] Solaris 10 Installation Guide: Network-Based Installations
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M (Optional) To Create a **Hashing Key** and an Encryption Key ... You must **restore** your

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File Format: PDF/Adobe Acrobat
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Efficient computer file **backup** system and method - Patent 20040236803
[0039] **Backup** and **Restore** servers 406 are used to direct the centralized **backup** ... and **rename** it to its **hashing key**, forward that renamed file to the ...
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1 Industrial sessions: beyond relational tables: Coordinating backup/recovery and data consistency between database and file systems

Suparna Bhattacharya, C. Mohan, Karen W. Brannon, Inderpal Narang, Hui-I Hsiao, Mahadevan Subramanian

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

Publisher: ACM Press

Full text available: pdf(1.44 MB) Additional Information: full citation, abstract, references, index terms

Managing a combined store consisting of database data and file data in a robust and consistent manner is a challenge for database systems and content management systems. In such a hybrid system, images, videos, engineering drawings, etc. are stored as files on a file server while meta-data referencing/indexing such files is created and stored in a relational database to take advantage of efficient search. In this paper we describe solutions for two potentially problematic aspects of such a data ...

Keywords: DB2, content management, database backup, database recovery, datalinks

2 Mac OS X panther imaging do's and don'ts

Chris Wiesemann

October 2004 **Proceedings of the 32nd annual ACM SIGUCCS conference on User services SIGUCCS '04**

Publisher: ACM Press

Full text available: pdf(193.95 KB) Additional Information: full citation, abstract, index terms

In fall of 2003, our department decided to deploy OS X on our 100 or so Apple lab computers. Apple provided a free training session on its OS X Server Network Image Utility, and we jumped at the opportunity. A month of testing left us frustrated with the Network Image Utility and the NetInstall procedure; they simply did not work as advertised.

Apple's OS X Server imaging tools work fine in certain environments, or with post-flight modifications, but we found them to be unusable in ou ...

Keywords: apple software restore, blast image config, carbon copy cloner, casper, imaging, labs, mac OS X, netBoot, netInstall, netRestore, netRestoreHelper. Radmind

3 On incremental file system development

Erez Zadok, Rakesh Iyer, Nikolai Joukov, Gopalan Sivathanu, Charles P. Wright
May 2006 **ACM Transactions on Storage (TOS)**, Volume 2 Issue 2
Publisher: ACM Press
Full text available: pdf(260.40 KB) Additional Information: full citation, abstract, references, index terms

Developing file systems from scratch is difficult and error prone. Using layered, or stackable, file systems is a powerful technique to incrementally extend the functionality of existing file systems on commodity OSes at runtime. In this article, we analyze the evolution of layering from historical models to what is found in four different present day commodity OSes: Solaris, FreeBSD, Linux, and Microsoft Windows. We classify layered file systems into five types based on their functionality and ...

Keywords: I/O manager, IRP, Layered file systems, VFS, extensibility, stackable file systems, vnode

4 Design of the Mneme persistent object store

J. Eliot B. Moss
April 1990 **ACM Transactions on Information Systems (TOIS)**, Volume 8 Issue 2
Publisher: ACM Press
Full text available: pdf(3.22 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The Mneme project is an investigation of techniques for integrating programming language and database features to provide better support for cooperative, information-intensive tasks such as computer-aided software engineering. The project strategy is to implement efficient, distributed, persistent programming languages. We report here on the Mneme persistent object store, a fundamental component of the project, discussing its design and initial prototype. Mneme stores objects

5 Biological versus computer viruses

D. Guinier
July 1989 **ACM SIGSAC Review**, Volume 7 Issue 2
Publisher: ACM Press
Full text available: pdf(933.73 KB) Additional Information: full citation, abstract, references, citings, index terms

To understand biological viruses, some notions of the fundamental knowledge of the structure of DNA, the genetic code, the biosynthesis of proteins, the transcription, replication and transfer processes,... are presented so as to give an idea as to how the genetic information is decrypted by biological mechanisms and consequently, how viruses work.**A computer "virus"** can be defined as a piece of code with a self-reproducing mechanism riding on other programs which cannot exist by it ...

6 Security as a new dimension in embedded system design: Security as a new dimension in embedded system design

Srivaths Ravi, Paul Kocher, Ruby Lee, Gary McGraw, Anand Raghunathan
June 2004 **Proceedings of the 41st annual conference on Design automation DAC '04**
Publisher: ACM Press
Full text available: pdf(209.10 KB) Additional Information: full citation, abstract, references, citings, index terms

The growing number of instances of breaches in information security in the last few years has created a compelling case for efforts towards secure electronic systems. Embedded systems, which will be ubiquitously used to capture, store, manipulate, and access data of

a sensitive nature, pose several unique and interesting security challenges. Security has been the subject of intensive research in the areas of cryptography, computing, and networking. However, despite these efforts, *security is ...*

***Keywords**: PDAs, architectures, battery life, cryptography, design, design methodologies, digital rights management, embedded systems, performance, security, security processing, security protocols, sensors, software attacks, tamper resistance, trusted computing, viruses*

7 A methodology for fast PC hard disk state restoration

David D. Langan, Thomas J. Scott

March 1992 **Proceedings of the 1992 ACM/SIGAPP symposium on Applied computing: technological challenges of the 1990's SAC '92**

Publisher: ACM Press

Full text available: pdf(676.05 KB) Additional Information: full citation, references, index terms

8 Peer-to-peer infrastructure: Pastiche: making backup cheap and easy

Landon P. Cox, Christopher D. Murray, Brian D. Noble

December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Publisher: ACM Press

Full text available: pdf(1.65 MB) Additional Information: full citation, abstract, references, citings

Backup is cumbersome and expensive. Individual users almost never back up their data, and backup is a significant cost in large organizations. This paper presents *Pastiche*, a simple and inexpensive backup system. Pastiche exploits excess disk capacity to perform peer-to-peer backup with no administrative costs. Each node minimizes storage overhead by selecting peers that share a significant amount of data. It is easy for common installations to find suitable peers, and peers with high ove ...

9 DLFM: a transactional resource manager

Hui-I Hsiao, Inderpal Narang

May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2

Publisher: ACM Press

Full text available: pdf(124.99 KB) Additional Information: full citation, abstract, references, citings, index terms

The DataLinks technology developed at IBM Almaden Research Center and now available in DB2 UDB 5.2 introduces a new data type called DATALINK for a database to reference and manage files stored external to the database. An external file is put under a database control by "linking" the file to the database. Control to a file can also be removed by "unlinking" it. The technology provides transactional semantics with respect to linking or unlinking the file when DATALINK ...

10 Documentation tools: Documentation meets version control: an automated backup system for HTML-based help

Robin Green

September 2000 **Proceedings of IEEE professional communication society international professional communication conference and Proceedings of the 18th annual ACM international conference on Computer documentation: technology & teamwork IPCC/SIGDOC '00**

Publisher: IEEE Educational Activities Department

Full text available: pdf(449.11 KB) Additional Information: full citation, abstract

Software developers have used version control systems for years, to manage source code changes and to enable them to reproduce any given level of their software from the source code that created it. Most writing departments, however, tend to perform full-scale weekly backups at best, or tempt fate at worst. The two major reasons for this neglect of document version control are lack of adequate tools and the effort required by writers to deal with the inadequate tools presently available. This pa ...

11 Register renaming and dynamic speculation: an alternative approach
Mayan Moudgill, Keshav Pingali, Stamatis Vassiliadis
December 1993 **Proceedings of the 26th annual international symposium on Microarchitecture MICRO 26**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.49 MB) Additional Information: full citation, references, citings

12 Recovery Techniques for Database Systems
Joost S. M. Verhofstad
June 1978 **ACM Computing Surveys (CSUR)**, Volume 10 Issue 2
Publisher: ACM Press
Full text available: pdf(2.32 MB) Additional Information: full citation, references, citings, index terms

13 Reducing register pressure through LAER algorithm
Gao Song
January 2004 **Proceedings of the 27th Australasian conference on Computer science - Volume 26 ACSC '04**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(393.79 KB) Additional Information: full citation, abstract, references, index terms

When modern processors keep increasing the instruction window size and the issue width to exploit more instruction-level parallelism (ILP), the demand of larger physical register file is also on the increase. As a result, register file access time represents one of the critical delays and can easily become a bottleneck. In this paper, we first discuss the possibilities of reducing register pressure by shortening the lifetime of physical registers, and evaluate several possible register renaming ...

Keywords: dynamic register renaming, out-of-order, register pressure, superscalar processors

14 A coherent distributed file cache with directory write-behind
Timothy Mann, Andrew Birrell, Andy Hisgen, Charles Jerian, Garret Swart
May 1994 **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 2
Publisher: ACM Press
Full text available: pdf(3.21 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Extensive caching is a key feature of the Echo distributed file system. Echo client machines maintain coherent caches of file and directory data and properties, with write-behind (delayed write-back) of all cached information. Echo specifies ordering constraints on this write-behind, enabling applications to store and maintain consistent data structures in the file system even when crashes or network faults prevent some writes from being completed. In this paper we describe ...

Keywords: coherence, file caching, write-behind

15 A practical guide to the design of differential files for recovery of on-line databases

Houtan Aghili
December 1982 **ACM Transactions on Database Systems (TODS)**, Volume 7 Issue 4
Publisher: ACM Press

Full text available: pdf(1.54 MB) Additional Information: full citation, abstract, references, citings, index terms

The concept of a differential file has previously been proposed as an efficient means of collecting database updates for on-line systems. This paper studies the problem of database backup and recovery for such systems, and presents an analytic model of their operation. Five key design decisions are identified and an optimization procedure for each is developed. A design algorithm that quickly provides parameters for a near-optimal differential file architecture is provided.

Keywords: backup and recovery, database maintenance, differential files, hashing functions, numerical methods, optimization, reorganization

16 R2-E: cross layer designs and protocols symposium: A distributed P2P network based on increasing reliability and scalability for internet applications

Ben-Jye Chang, Chao-Shu Chen, Ying-Hsin Liang, Hong-Da Lin
July 2006 **Proceeding of the 2006 international conference on Communications and mobile computing IWCMC '06**
Publisher: ACM Press
Full text available: pdf(2.12 MB) Additional Information: full citation, abstract, references, index terms

In this paper, we propose an efficient, distributed, reliable P2P networks for this purpose, which is called hand-in-hand (HIH) P2P network. First, HIH adopts distributed index servers with unique individual ID as logical ring nodes for storing and managing the file sharing information. Second, HIH adopts a consistent hashing to hash the sharing filename as a seed and maps the seed to a corresponding index server. The consistent hashing achieves some advantages including, scalable, providing a f ...

Keywords: distributed P2P networks, file sharing client/server, index client/server, reliable, resource sharing, scalable

17 Practical byzantine fault tolerance and proactive recovery

Miguel Castro, Barbara Liskov
November 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 4
Publisher: ACM Press

Full text available: pdf(1.63 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Our growing reliance on online services accessible on the Internet demands highly available systems that provide correct service without interruptions. Software bugs, operator mistakes, and malicious attacks are a major cause of service interruptions and they can cause arbitrary behavior, that is, Byzantine faults. This article describes a new replication algorithm, BFT, that can be used to build highly available systems that tolerate Byzantine faults. BFT can be used in practice to implement re ...

Keywords: Byzantine fault tolerance, asynchronous systems, proactive recovery, state machine replication, state transfer

18 Final report of the ANSI/X3/SPARC DBS-SG relational database task group

July 1982 **ACM SIGMOD Record**, Volume 12 Issue 4

Publisher: ACM Press

Full text available: pdf(4.69 MB) Additional Information: full citation, citings

19 Physical integrity in a large segmented database

Raymond A. Lorie

March 1977 **ACM Transactions on Database Systems (TODS)**, Volume 2 Issue 1

Publisher: ACM Press

Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, references, citings, index terms

A database system can generally be divided into three major components. One component supports the logical database as seen by the user. Another component maps the information into physical records. The third component, called the storage component, is responsible for mapping these records onto auxiliary storage (generally disks) and controlling their transfer to and from main storage. This paper is primarily concerned with the implementation of a storage component. It considers ...

Keywords: checkpoint-restart, database, recovery, storage management

20 The taser intrusion recovery system

Ashvin Goel, Kenneth Po, Kamran Farhadi, Zheng Li, Eyal de Lara

October 2005 **ACM SIGOPS Operating Systems Review , Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05**, Volume 39 Issue 5

Publisher: ACM Press

Full text available: pdf(346.32 KB) Additional Information: full citation, abstract, references, index terms

Recovery from intrusions is typically a very time-consuming operation in current systems. At a time when the cost of human resources dominates the cost of computing resources, we argue that next generation systems should be built with automated intrusion recovery as a primary goal. In this paper, we describe the design of Taser, a system that helps in selectively recovering legitimate file-system data after an attack or local damage occurs. Taser reverts tainted, i.e. attack-dependent, file-syst ...

Keywords: file systems, intrusion analysis, intrusion recovery, snapshots

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